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FIG. 1A

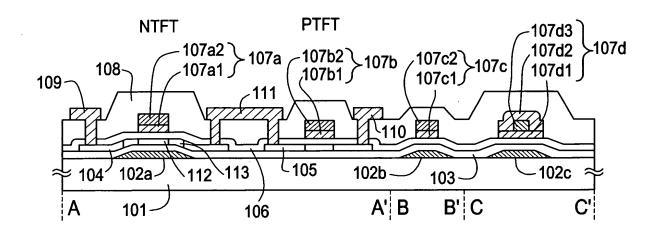


FIG. 1B

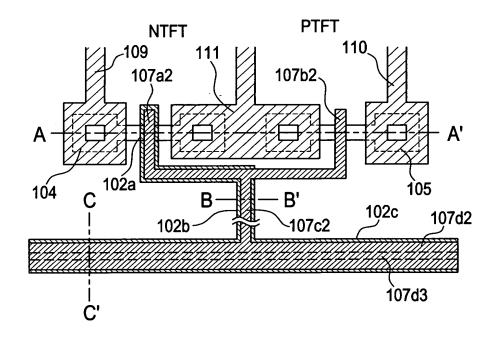


FIG. 2A

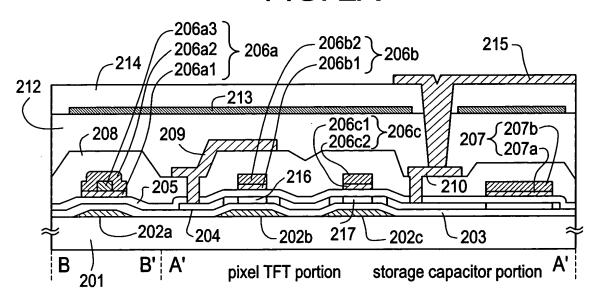


FIG. 2B

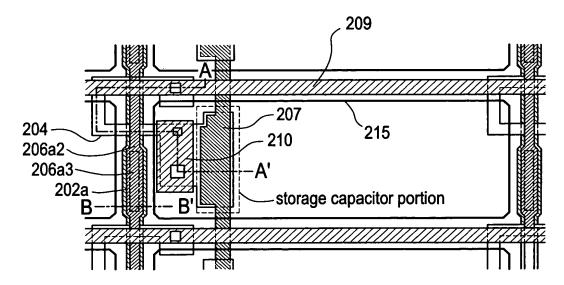


FIG. 3A

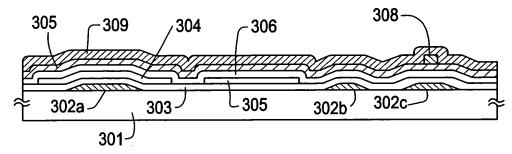


FIG. 3B

phosphorus doping step

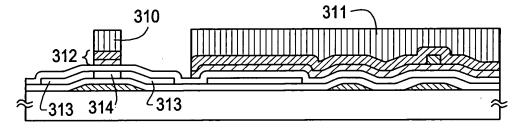


FIG. 3C

315-

boron doping step 316 317 318 319 320 321

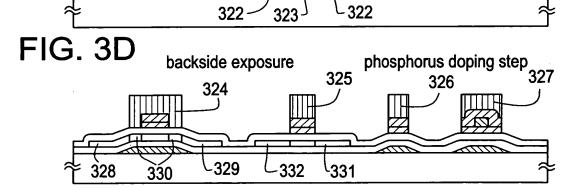
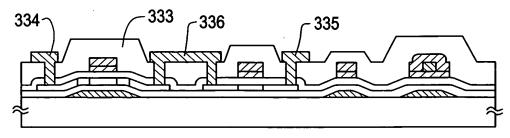
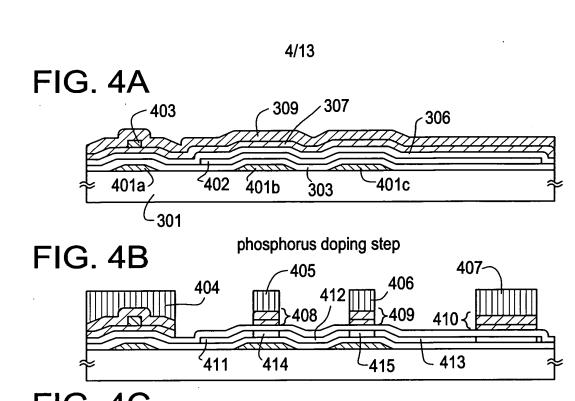
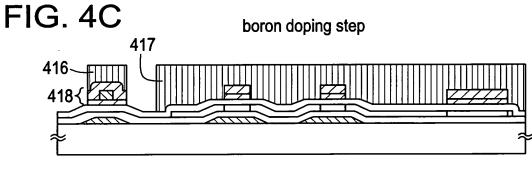
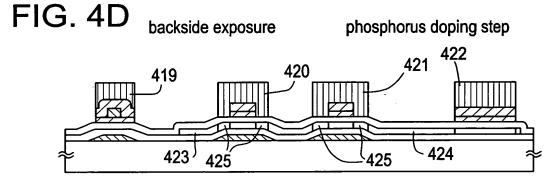


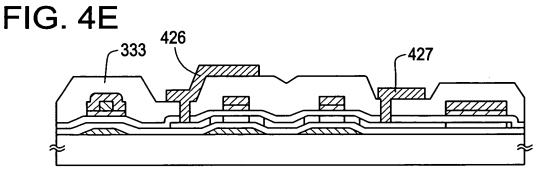
FIG. 3E













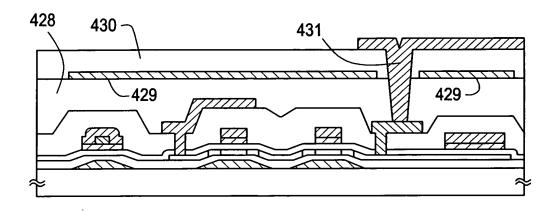
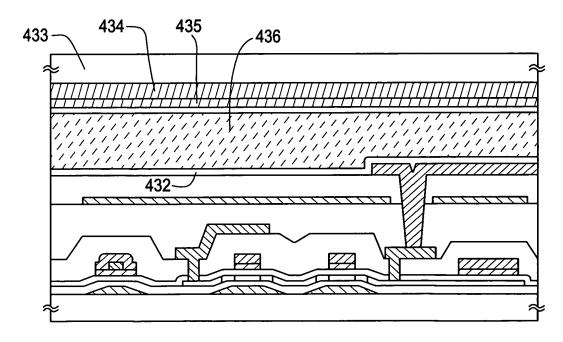


FIG. 5B





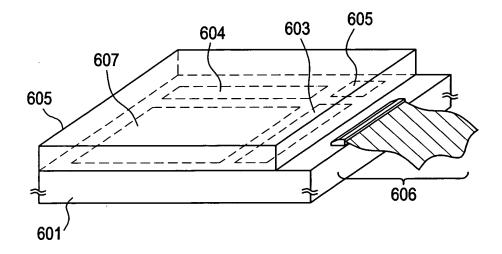
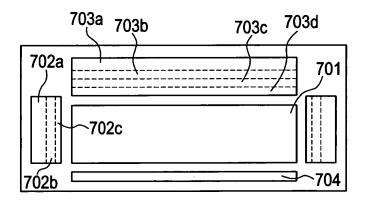


FIG. 7





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FIG. 8A

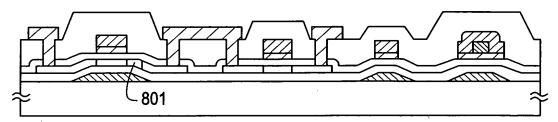


FIG. 8B

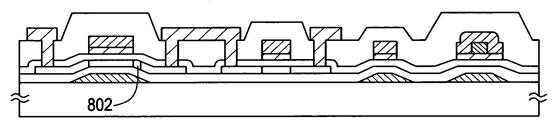


FIG. 8C

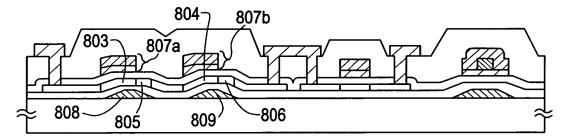
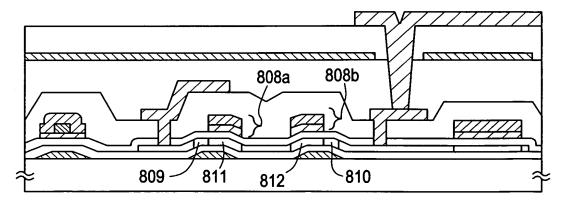


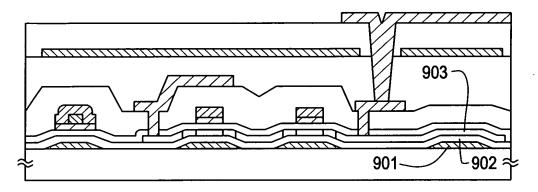
FIG. 8D





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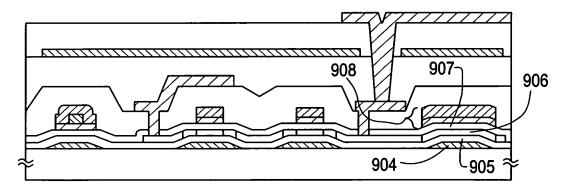
FIG. 9A



pixel TFT portion

storage capacitor portion

FIG. 9B



pixel TFT portion

storage capacitor portion

FIG. 10A

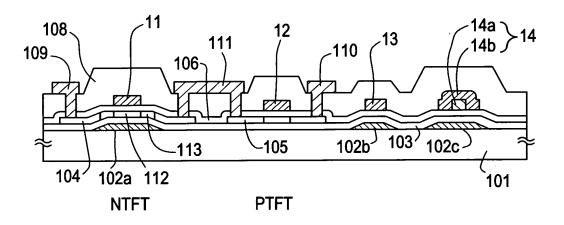
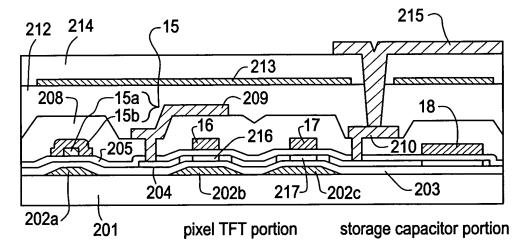


FIG. 10B





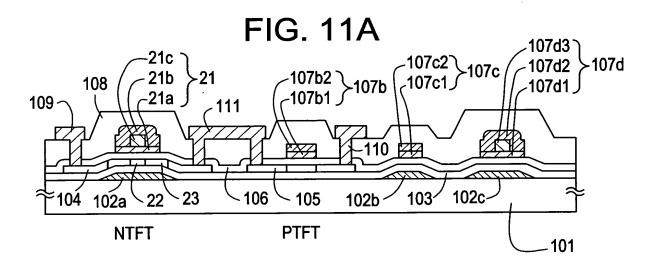
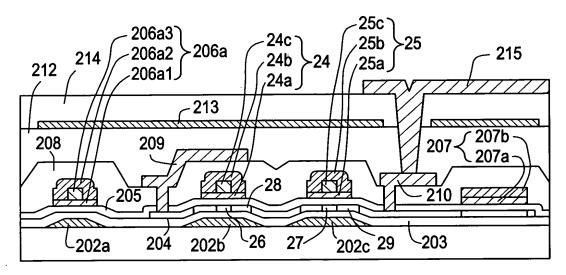


FIG. 11B



pixel TFT portion

storage capacitor portion



FIG. 12A

gettering step by phosphorus

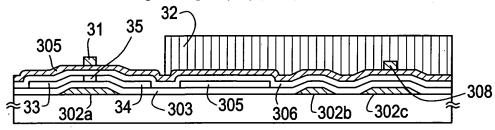


FIG. 12B

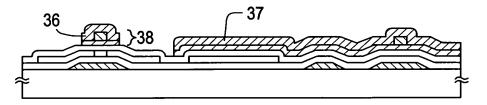


FIG. 12C

boron doping step

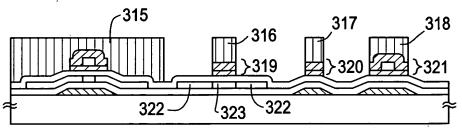


FIG. 12D

back side exposure step phosphorus doping step

324
325
326
327
41
40
332
331

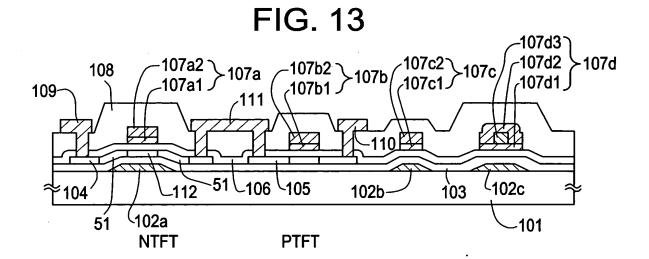


FIG. 14A

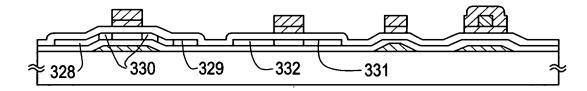
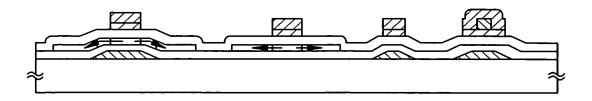


FIG. 14B



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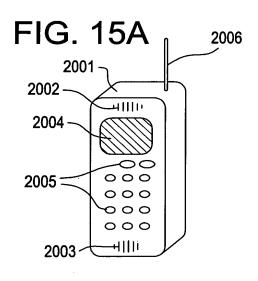


FIG. 15B

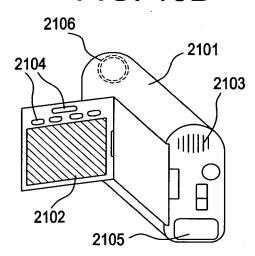


FIG. 15C

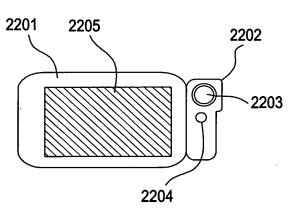


FIG. 15D

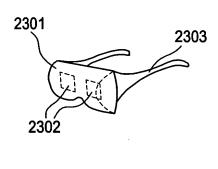


FIG. 15E

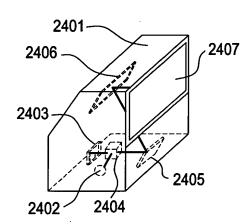


FIG. 15F

